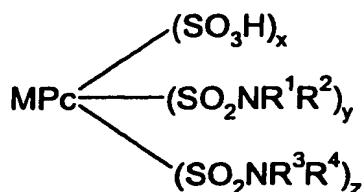


ABSTRACTPhthalocyanines And Their Use In Ink-Jet Printers

5 A composition comprising:

(a) a major dye component which is a mixture of phthalocyanine dyes of Formula (1) and salts thereof:

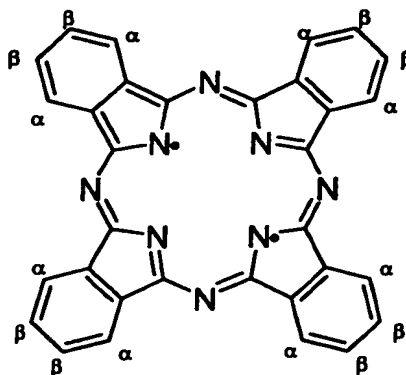


Formula (1)

wherein:

M is Cu or Ni;

Pc represents a phthalocyanine nucleus of formula;



20  $\text{R}^1$  and  $\text{R}^2$  independently are H or optionally substituted  $\text{C}_{1-4}$ alkyl;

$\text{R}^3$  is H or optionally substituted hydrocarbyl; and

$\text{R}^4$  is optionally substituted hydrocarbyl; or

$\text{R}^3$  and  $\text{R}^4$  together with the nitrogen atom to which they are attached represent an optionally substituted aliphatic or aromatic ring system;

x is 0.1 to 3.8;

25 y is 0.1 to 3.8;

z is 0.1 to 3.8;

the sum of  $(x+y+z)$  is 4; and

the substituents, represented by x, y and z, are attached only to a  $\beta$ -position on the phthalocyanine ring; and

(b) a liquid medium which comprises water and an organic solvent or an organic solvent free from water.

Also novel dyes, ink-jet printing processes, printed images, and cartridges.